

Applicants: Sundquist et al.
Serial No. 09/827,108
Page 2

IN THE CLAIMS:

1. (Currently Amended) A system for use in deploying one or more electrode assemblies, comprising:
 - an elongated guiding device having a proximal end and a distal end, deployable within a vascular structure;
 - an expandable fixation member coupled to the distal end such that selective expansion of the fixation member secures the elongated guiding device within the vascular structure at a given position; and
 - a coupling member adjacent to the elongated guiding device adapted to slidably engage ~~the one or more~~ an electrode assembly ~~assemblies~~ and having a terminal end such that advancement of electrode assembly distal to the terminal end causes separation of the electrode assembly from the coupling member within the vascular structure, whereby the each of the ~~one or more~~ electrode assembly may be located at ~~respective~~ a predetermined sites of implant while the fixation member is expanded.
2. (Cancelled)
3. (Previously Presented) The system of Claim 1, wherein the coupling member is a rail member.
4. (Original) The system of Claim 3, wherein the rail member is selected from the group consisting of a Y-rail, an H-rail, a K-rail, and a T-rail.
5. (Currently Amended) The system of Claim 1, wherein the coupling member has means for preventing ~~each of the one or more~~ the electrode assembly from shifting laterally as the ~~one or more~~ electrode assemblies are slid while sliding along the coupling member.

Applicants: Sundquist et al.

Serial No. 09/827,108

Page 3

6. (Original) The system of Claim 1, wherein the coupling member and the elongated guiding device are a unified structure.
7. (Original) The system of Claim 1, wherein the expandable fixation member is an inflatable member.
8. (Original) The system of Claim 1 or 7, wherein the elongated guiding device includes an infusion lumen and a delivery port in fluid communication with the infusion lumen whereby fluoro-visible medium may be injected to obtain a venogram.
9. (Original) The system of Claim 8, wherein the infusion lumen is included in the coupling member.
10. (Original) The system of Claim 8, wherein the delivery port is located proximal to the fixation member.
11. (Cancelled).
12. (Original) The system of Claim 3, wherein the rail member includes a flexible extension adapted to allow each of the one or more electrode assemblies to more readily engage the rail member.
13. (Cancelled).
14. (Currently Amended) An implantable medical device, comprising:
an elongated guiding device having a proximal end and a distal end, deployable within a vascular structure;
an expandable fixation member coupled to the distal end, such that selective expansion of the fixation member secures the elongated guiding device within the vascular structure at a given position;

Applicants: Sundquist et al.
Serial No. 09/827,108
Page 4

a coupling member adjacent to the elongated guiding device and having a terminal end; and

at least one electrode assembly adapted to slidably engage the coupling member, such that advancement of electrode assembly distal to the terminal end causes separation of the electrode assembly from the coupling member within the vascular structure while the fixation member is expanded.

15. (Cancelled).
16. (Previously Presented) The system of Claim 14, wherein the coupling member is a rail member.
17. (Original) The system of Claim 16, wherein each of the at least one electrode assemblies includes a channel member to slidably engage the rail member.
18. (Original) The system of Claim 17, wherein the rail member is selected from the group consisting of a Y-rail, an H-rail, a K-rail, and a T-rail.
19. (Cancelled).
20. (Cancelled).
21. (Original) The system of Claim 14, wherein the coupling member has a rail for preventing each of the one or more electrode assemblies from twisting as the electrode assemblies slidably engage the coupling member.
22. (Original) The system of Claim 14, wherein the coupling member and the elongated guiding device are a unified structure.

Applicants: Sundquist et al.

Serial No. 09/827,108

Page 5

23. (Original) The system of Claim 14, wherein the expandable fixation member is an inflatable member.

24. (Cancelled).

25. (Previously Presented) The system of Claim 14, wherein predetermined ones of the at least one electrode assembly includes fixation means.

26 - 41 (Cancelled)